AAAS REPORT
A Larger Role for History of Science in Undergraduate Education

NORRIS S. HETHERINGTON
Office for the History of Science and Technology,
University of California, Berkeley

HISTORIANS OF SCIENCE have often been called to contribute to undergraduate education. As HSS President Stephen G. Brush notes [Newsletter, January 1990, pp. 1, 8–10], historically oriented science courses could become a valuable part of the core curriculum at many institutions, and faculty at many colleges—especially science professors—have expressed strong interest in using materials and perspectives from history of science.

We are now called again, this time by the American Association for the Advancement of Science. The Liberal Art of Science: Agenda for Action, published by the AAAS in May 1990, argues that science is one of the liberal arts and that it should be taught as such, as integrated into the totality of human experience. This argument and advice may seem obvious to historians of science, but it is a revolutionary departure from tradition for many scientists, and one that could transform both undergraduate education and the role of our discipline.

Historians of science, with intellectual and cultural interests bridging the humanities and the sciences, clearly have a key role to play in the reform of undergraduate education recommended by AAAS. Traditionally tugged between the “two cultures,” we used to meet in alternate years with scientists

AAAS Report continued on page 6

Conference honors Thomas S. Kuhn; see story, and other meeting reports, on page 24.
Photograph by Jehane R. Kuhn.
THE 1990 HSS ELECTION CANDIDATES’ BIOGRAPHIES

FOR COUNCIL

William B. Ashworth, Jr.

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study of the cultural contexts in which nature was reconceived during the sixteenth and seventeenth centuries.

Katharine Park


Alan J. Rocke


FOR NOMINATING COMMITTEE, FROM THE SOCIETY AT LARGE

Loren Graham

Albert Van Helden

Lynette S. Autrey Professor of History, Rice University. Ph.D., University of London (Imperial College), 1970. Specialties: history of astronomy, Scientific

Mary P. (Polly) Winsor


The Society notes with regret the death of Francis C. Haber, at age 69, on 11 March 1990, in Washington, D.C.

AAAS Report—continued from page 1

and with historians. More recently, our professional interests have focused more on our ties with the humanities, and our humanist colleagues have learned to look to us to help them close the gap between these cultures. Now, as scientists increasingly appreciate the crucial importance of the history of science in science education, we can once again help our scientist colleagues build the connections between the humanities and the sciences that they seek.

As the AAAS report stresses, education in science is more than the transmission of factual information. Science education should emphasize the nature of scientific understanding, integrative concepts, and the context of science. The teaching of science must explore the interplay between science and the intellectual and cultural traditions within which it is firmly embedded. Science has a history that can demonstrate relationships between science and the wider world of ideas and can illuminate contemporary issues. Liberal education in the sciences must provide students with linkages to the real world by exploring values inherent in science, by examining institutions that set directions for science, and by stressing the choices that scientists, citizens, and governments make about science in human lives. This is where historians of
**NEWS OF THE SOCIETY**

**Grant from Pfizer, Inc.**

Pfizer, Inc., the worldwide research-based company that has long supported HSS in many ways—including, since 1958, its subvention of the Pfizer Award—has again proved to be one of the Society's best friends. In July 1990 it will grant $5,000 to the Society to support a full evaluation of all aspects of the Society's publications program, including Isis, Osiris, the HSS Newsletter, the Current Bibliography, the Guide to the History of Science, all occasional publications, and the HSS Publications Office at the University of Pennsylvania. This study will be carried out by Barbara Meyers, one of the founders of the Society for Scholarly Publishing, who has already begun to talk with the editors of all HSS publications and has scheduled visits to their offices. She will report the results of her analysis to the Committee on Publications later this summer, and it will meet to consider her recommendations early in September. In October the Council will review the results of this survey at its Seattle meeting.

**HSS Election Procedures**

The Executive Secretary has received no additional comments about the three election procedures currently being considered by the Council [see HSS Newsletter, January 1990, p. 2, and April 1990, p. 2]. In addition, the April issue neglected to note that Nathan Reingold explicitly wished to have his comments on these procedures read as those of a past candidate for presidency nominated by petition.

**Committee on Education**

The Committee on Education has begun its Syllabus Project, intended to collect syllabi, writing assignments, examination questions, and bibliographies from as many courses in and related to the history of science as possible. CoE plans and has initial funding to publish the results of the project. Publication will proceed in two stages: first, a collection of about twenty-five syllabi representing the broad range of history of science courses taught by HSS members; second, collections on more specialized topics, for example, women in science, history of biology, or science and society. CoE thanks all HSS members who have already responded. If you have not yet sent your course material, please do not delay. And if you have not yet received the committee's initial mailing about the Syllabus Project, please contact Henry J. Steffens, Coordinator, Department of History, University of Vermont, Wheeler House, Burlington, VT 05405, (802) 656-3180.

**1991 Annual Meeting**

The 1991 HSS Annual Meeting will be held in Madison, Wisconsin, from Thursday, 31 October, through Sunday, 3 November. It will run concurrently.

continued on next page

**Committee on Meetings and Programs**

At its meeting in Gainesville, the Committee on Meetings and Programs discussed the desirability of canvassing Society members on such issues as the timing and location of annual meetings and the frequency of joint meetings with the American Historical Association, the Society for the History of Technology, and other societies.

We ask you to take a few minutes to fill out this questionnaire so that CoMP can take your views into account as it plans future meetings.

Membership status: Member since 19__; current status: regular/student/retired

What meetings have you attended in the last ten years? If you cannot remember, please do not guess. (Circle your response.)

<table>
<thead>
<tr>
<th>Year</th>
<th>Meetings</th>
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<tbody>
<tr>
<td>1980</td>
<td>Toronto, October, four societies</td>
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<tr>
<td>1981</td>
<td>Los Angeles, December, with AHA</td>
</tr>
<tr>
<td>1982</td>
<td>Philadelphia, October, four societies</td>
</tr>
<tr>
<td>1983</td>
<td>Norwalk, October, HSS only</td>
</tr>
<tr>
<td>1984</td>
<td>Chicago, December, with AHA</td>
</tr>
<tr>
<td>1985</td>
<td>Bloomington, October-November, HSS only</td>
</tr>
<tr>
<td>1986</td>
<td>Pittsburgh, October, four societies</td>
</tr>
<tr>
<td>1987</td>
<td>Raleigh, October-November, with SHOT</td>
</tr>
<tr>
<td>1988</td>
<td>Cincinnati, December, with AHA</td>
</tr>
<tr>
<td>1989</td>
<td>Gainesville, October, HSS only</td>
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What meetings do you expect to attend?

<table>
<thead>
<tr>
<th>Year</th>
<th>Meetings</th>
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<tbody>
<tr>
<td>1990</td>
<td>Seattle, October, HSS only</td>
</tr>
<tr>
<td>1991</td>
<td>Madison, October, with SHOT</td>
</tr>
<tr>
<td>1992</td>
<td>Washington, D.C., December, with AHA</td>
</tr>
<tr>
<td>1993</td>
<td>Santa Fe, early November, HSS only</td>
</tr>
<tr>
<td>1994</td>
<td>Midwest or East, October, four societies</td>
</tr>
</tbody>
</table>

How would you alter frequencies in the current meeting pattern if you could? (Circle your response.)

Fall meetings [on university campuses or in small cities] as a single society or with SHOT: increase decrease leave as is

Winter meetings with AHA: increase decrease leave as is

Meetings in the East: increase decrease leave as is

Meetings in the Midwest: increase decrease leave as is

Meetings in the West: increase decrease leave as is

What time of year do you prefer? Please rank in order of preference (1 = first choice).

Other (please specify) October-November December

Remarks:

Please return by 30 September 1990 to John W. Servos, Department of History, Amherst College, Amherst, MA 01002.
Harcourt Brown, author of [among many other works] Science and the Human Comedy: Natural Philosophy in French Literature from Rabelais to Maupertuis [Toronto, 1976], Professor Emeritus of History at Brown University, and President of the Society in 1951 and 1962, celebrated his ninetieth birthday on 30 May 1990. Members of the Society who wish to congratulate him on the occasion may write to him at 336 Kingsway Avenue, Winnipeg, Manitoba R3M 0H5, Canada.

News of the Society—continued

with the Society for the History of Technology's annual meeting and the joint HSS-SHOT Conference on Critical Problems and Research Frontiers in History of Science and Technology, which will begin on Wednesday, 30 October. The number of regular HSS sessions will be reduced somewhat because sessions of interest to HSS members will be incorporated into the two other meetings. Please direct preliminary inquiries to Albert E. Moyer or Richard Hirsh, Program Chairs, Department of History, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0117; (703) 231-8378 or (703) 231-5601; e-mail aemoyer@virginia.bitnet or richards@vtvml.bitnet. For information on sessions specifically appropriate for the SHOT meeting please contact Deborah Fitzgerald, Program in Science, Technology, and Society, E51-128, Massachusetts Institute of Technology, Cambridge, MA 02139; (617) 253-7752. For information on the Conference on Critical Problems please contact the HSS Cochair, Frederic L. Holmes, Section of the History of Medicine, Yale University School of Medicine, P.O. Box 3333, New Haven, CT 06510-8015, (203) 785-4339, or the SHOT Cochair, Bruce Sinclair, Department of Social Sciences, Georgia Institute of Technology, Atlanta, GA 30332, (404) 894-6828.

HSS E-Mail Addresses

The History of Science Society Publications Office at the University of Pennsylvania in Philadelphia may now be reached via Internet at hsg@pennsas.upenn.edu. [Please do not send items longer than one page.] After 1 July 1990 HSS members with access only to Bitnet will no longer be able to contact the Executive Secretary's e-mail addresses—msokal@wpi and hssokal@wpi—directly. [The addresses will, however, continue to be accessible directly through Internet, at msokal@wpi.wpi.edu and hssokal@wpi.wpi.edu.] Individuals with access only to Bitnet may still be able to correspond with these e-mail addresses using one of the several “gates” between Bitnet and Internet; they are urged to consult their host computer centers.

Aid for Romania

HSS members and other scholars who wish to donate books and journals to help rebuild the University Library in Bucharest, whose 300,000-volume collection was destroyed in the revolution of December 1989, can send these materials to the Romanian Library, 200 East 38th Street, New York, NY 10016. The Romanian Foreign Ministry and the Romanian Embassy will arrange for their shipment to eastern Europe without additional charge. Please label shipments in bold letters, “FOR DONATION TO BUCHAREST LIBRARY.” There is no time limit.
History of Science Society Annual Meeting

25–28 October 1990
Holiday Inn, Crowne Plaza
Seattle, Washington

1990 Program Committee
Peter Galison, Stanford University
Timothy Lenoir, Stanford University

1990 Local Arrangements Committee
Keith Benson, University of Washington, Chair

Please report errors or corrections to Timothy Lenoir, Program in History of Science, Stanford University, Stanford, California 94305, before 31 August 1990.

Registration (tentative)
Thursday, 25 October, 4:00 p.m.–10:00 p.m.
Friday, 26 October, 8:30 a.m.–6:00 p.m.
Saturday, 27 October, 8:30 a.m.–3:00 p.m.

Thursday, 25 October

HSS Executive Committee Meeting
11:00 a.m.–12:00 noon

HSS Council Buffet Luncheon
12:00 noon–1:00 p.m.

HSS Council Meeting
1:00 p.m.–7:00 p.m.

Opening Reception
5:30 p.m.–8:00 p.m.

1. New Challenges to the Historiography of Science
8:00 p.m.–9:45 p.m.
Chair: Stephen G. Brush, * University of Maryland at College Park
Construct or Context: Evaluating the New Historiography: Carolyn Merchant, University of California at Berkeley
Michel Foucault as Historian of Science: Gary Gutting, University of Notre Dame
Commentator: David A. Hollinger, University of Michigan

2. Science and Practice: Artificial Revelation in Modern Astronomy
8:00 p.m.–9:45 p.m.
Chair: John Lankford, University of Missouri at Columbia
Redshifts and Rotations: V. M. Slipher and the Mastery of Spectrographic Technique: Robert W. Smith, Johns Hopkins University and Smithsonian Institution

Friday, 26 October

HSS Committee on Research and the Profession:
Breakfast Meeting
7:00 a.m.–9:00 a.m.

Forum for the History of Science in America: Breakfast Meeting
7:30 a.m.–8:30 a.m.

3. Workshop on Teaching Gender and Science: Approaches and Topics for Courses in the History of Science, Technology, and Medicine
Sponsored by the HSS Committee on Women and Committee on Education
8:30 a.m.–10:15 a.m.
Chair: Leslie Burlingame, * Franklin and Marshall College
Rima D. Apple, University of Wisconsin at Madison
Ruth Schwartz Cowan, State University of New York at Stony Brook
Ann Fausto-Sterling, Brown University
Sally Gregory Kohlstedt, University of Minnesota
Carolyn Merchant, University of California at Berkeley
Margaret Rossiter, Cornell University
Londa Schiebinger, Pennsylvania State University

8:30 a.m.–10:15 a.m.
Chair: Vassiliki Betty Smocovitis, * University of Florida and Stanford University
Julian Huxley and the Unification of Biology: Vassiliki Betty Smocovitis
Macroevolution and the Evolutionary Synthesis: Mark Adams, University of Pennsylvania
The Neutral Theory of Molecular Evolution and the Evolutionary Synthesis: William Provine, Cornell University
Commentator: Garland Allen, Washington University at St. Louis

5. Perspectives on Plato's Timaeus
8:30 a.m.–10:15 a.m.
Chair and commentator: Michael White, Arizona State University
A Statement of the Limitations, Misunderstandings, and Troubling Doctrines of the Medieval Timaeus: Paul Dutton, Simon Fraser University

Lyot and the Coronagraph, 1929–1939: Karl Hufbauer, University of California at Irvine
Exploring the Rocket Ultraviolet in Postwar Astrophysics: Bruce Hevly, University of Washington
Commentator: Peter Galison, Stanford University

*Session organizers are indicated by an asterisk.
Friday, session 5—continued

8. The Impact of Quantum Field Theory
   8:30 a.m. -10:15 a.m.
   Chair: Max Dresden,* Stanford University
   Linear Accelerator Center
   Spontaneous Breaking of Symmetry: Its Rediscovery and
   Integration in Quantum Field Theory: Laurie Brown,
   Northwestern University
   Historical Interplay between Statistical Mechanics and
   Quantum Field Theory: Max Dresden
   A Historical Perspective on Perturbation Ideas in Quantum
   Mechanics: Martin Gutzwiller, IBM Watson Laboratory,
   Yorktown, New York
   Historical Development of Renormalization Ideas: Silvan S.
   Schweber, Dibner Institute and Brandeis University

9. Science and Romanticism
   8:30 a.m. -10:15 a.m.
   Chair: Trevor Levere,* University of Toronto
   Goethean Law and Order: Myles W. Jackson, University of
   Cambridge
   From Enlightenment to Naturphilosophie: Johann Christian
   Reil and the Berlin Circle of Marcus and Henriette Herz:
   LeAnn Hansen Le Roy, California State University at
   Fullerton
   Circumscribing Science: Romantic Naturphilosophie and
   the Physics of Sidereal Man: Stuart Strickland, Harvard
   University
   Romantic Science: Johann Wilhelm Ritter and the Study of
   Animal Electricity: Maria Trumpler, Yale University
   When Facts Speak for Themselves: Spirit Phenomena and
   the Spirit of Science in Antebellum America: Chris Shanks,
   San Diego State University
   Faustian Phenomena: Empirical Teleology in Goethe's
   Bioscience: John F. Cornell, University of Chicago

10. Gender and Academic Patronage: Student-Mentor
    Collaborative Relationships
    10:30 a.m. -12:15 p.m.
    Organizer: Pnina Abir-Am, Stanford University
    Chair: Dorinda Outram, University College, London
    Collaborative Relationships between Male and Female
    Scientists in Russia in the 1860s and 1870s: Ann Hibner
    Koblitz, Hartwick College
    Lise Meitner's Mentors: Ludwig Boltzmann at the
    University of Vienna and Max Planck at the Kaiser Wilhelm
    Institute in Berlin: Ruth Sime, Sacramento City College
    European and American Mentors of American Women
    Scientists at the Naples Zoological Station: Jan Sloan,
    Independent Scholar
    What Makes Science Possible?: African-American Women
    Scientists: Evelyn Hammonds, Harvard University
    Friend or Foe: The Academic Mentors of Women Scientists
    at Canadian Universities, 1890-1940: Marianne Ainsley,
    Simone de Beauvoir Institute, Concordia University
    Commentators: Stephen G. Brush, University of Maryland
    at College Park, Margaret Rossiter, Cornell University

11. National Styles in Paleontology
    10:30 a.m. -12:15 p.m.
    Chair and commentator: Martin J. S. Rudwick, University
    of California at San Diego
    The Development of American Paleontology: Ronald
    Rainger, Texas Tech University
    H. F. Osborn and the Development of Canadian
    Paleontology: Gale Awrith,* Royal Ontario Museum,
    Toronto
    Uniformitarianism and Unity in American Historical
    Geology, 1922–1933: Naomi Oreskes, Dartmouth College

*Session organizers are indicated by an asterisk.
12. Money, Manpower, and Machines: The Rise of American Geophysics as Big Science
10:30 a.m.–12:15 p.m.

Chair: Spencer R. Weart, American Institute of Physics, New York

Science as Good Business: The International Geophysical Year and the Rise of Big Science in Geophysics: Ron Doel, American Institute of Physics, New York


Commentator: Robert W. Smith, Johns Hopkins University and Smithsonian Institution

13. Fieldwork in the Nineteenth and Twentieth Centuries
10:30 a.m.–12:15 p.m.

Chair and commentator: Henrika Kuklick, University of Pennsylvania

Empire and Expeditions: The Politics and Culture of Eclipse Observation in India, 1868–1898: Alex Pang, University of Pennsylvania

The Modeling of the Grasslands: Chunglin Kwa, University of Amsterdam

Kuru Fieldwork: A Strange Case of Medical Science Cannibalizing Anthropology: Warwick Anderson, University of Pennsylvania

Reconstructing Research Practices in Vegetation Science: The Exploration of Field Notebooks: Kaat Schulte Fischedick, University of Amsterdam

10:30 a.m.–12:15 p.m.

Chair: Frank Sulloway, Massachusetts Institute of Technology

The Limits of Scientific Reasoning: Implications for the History and Philosophy of Science: David Faust, University of Rhode Island

Orthodoxy and Innovation in Science: A Multivariate Analysis: Frank Sulloway

A Repository for More Than Anecdote or Chronology: History of Science as the Science of Science: Rachel Laudan, University of Hawaii

Commentator: David Hull, Northwestern University

15. The Cultural Context of the Vienna Circle
10:30 a.m.–12:15 p.m.

Chair and commentator: Margaret Morrison, University of Toronto

Carnap’s Engineering Conception of Philosophy: Richard Creath, Arizona State University

Unity of Science: Viennese Positivism versus American Operationalism: Nancy Cartwright, Stanford University

The Construction of Modernism: The Vienna Circle and Bauhaus Architecture: Peter Galison, Stanford University

16. Works in Progress: Chemistry
10:30 a.m.–12:15 p.m.

Chair: John Servos, Amherst College

Antoine Lavoisier, Academician: Arthur Donovan, United States Merchant Marine Academy

The Structure and Philosophy of Group Research: August Wilhelm von Hofmann’s Laboratory Research Program in London and Berlin: Michael Kcas, University of Oklahoma

Priestley and Lavoisier: The Industrious Production and Aesthetic Resolution of Facts: Alfred Nordmann, University of South Carolina

James Hutton and Phlogiston: Douglas Allchin, University of Chicago

Prior History and Aftereffects: Nachwirkung und Hysteresis in Nineteenth-Century Physics: Matthias Dörries, University of California at Berkeley

HSS Committee on Minority Affairs: Luncheon
12:30 p.m.–1:30 p.m.

HSS Committee on Honors and Prizes: Luncheon
12:30 p.m.–1:30 p.m.

HSS Committee on Independent Scholars: Luncheon
12:30 p.m.–1:30 p.m.

This session is open to all interested HSS members

HSS Business Meeting
1:00 p.m.–2:00 p.m.

17. Race and Gender in Science
2:00 p.m.–3:45 p.m.

Chair: Londa Schiebinger, Pennsylvania State University


The Anatomy of Difference: Sex and Race in Eighteenth-Century Science: Londa Schiebinger

The Dissection of Race and Gender in the Nineteenth Century: Ann Fausto-Sterling, Brown University

Commentator: Cynthia Smith, Smith College

2:00 p.m.–3:45 p.m.

Chair: Ronald Rainger, Texas Tech University

Setting the Record Straight: Simpson’s Interest in Mega-Evolution: Joseph Allen Cain, University of Minnesota
Friday, session 18—continued

The Grand Synthesis: G. G. Simpson and The Meaning of Evolution: Mark Swetlitz, University of Chicago

G. G. Simpson as Mentor and Apologist for Paleonanthropology: Léo Laporte, University of California at Santa Cruz

Commentator: Michael Ruse, University of Guelph

Cosponsored by the Forum for History of Human Science
2:00 p.m.—3:45 p.m.
Chair: Silvan S. Schweber, Dibner Institute and Brandeis University


John Stuart Mill and the Natural/Artificial Distinction: Margaret Schabas, University of Wisconsin at Madison

Commentator: Theodore Porter, University of Virginia

2:00 p.m.—3:45 p.m.
Chair: Henry Lowood, Stanford University

Constructing the New Book of Nature: Communities and Control: Robin Rider, University of California at Berkeley; Henry Lowood

The Garden of Nature: Evolution of a Seventeenth-Century Image: William Ashworth, University of Missouri at Kansas City

New Readings of Nature: Natural History Books in the Seventeenth Century: Anthea Waleson, Stanford University

Commentator: Mario Biagioli, University of California at Los Angeles

21. Human Science and Social Classification in Twentieth-Century America
Cosponsored by the Forum for History of Human Science
2:00 p.m.—3:45 p.m.
Chair: Michael M. Sokal, Worcester Polytechnic Institute

"Destitute of Moral Sense": Scientific Testimony in the 1916 Trial of a Teenage Teacher-Murderer: Steven Gelb, University of San Diego


"What Manner of Morph Are You?" Bodysotyping in American Medicine and Psychology: Sarah W. Tracy, University of Pennsylvania

Commentator: Leila Zenderland, California State University at Fullerton

22. Running the Manhattan Project: Conant, Graves, and Szilard
2:00 p.m.—3:45 p.m.
Chair: Martin Sherwin, Tufts University

Aloof But Not Oblivious: James B. Conant, Manhattan Project Scientists, and Controlling the Atomic Bomb, 1944–1945: James Hershberg, Tufts University

Groses and the Scientists: Compartmentalization and the Struggle to Build the Bomb: Stanley Goldberg, Independent Scholar

Running Down the Manhattan Project: Leo Szilard's Efforts to Build and Ban the Bomb: William Lanouette, Independent Scholar

Commentators: Martin Sherwin; Thomas L. Hankins, University of Washington

23. Works in Progress: Science and Power
2:00 p.m.—3:45 p.m.
Chair and commentator: Jane Maienschein, Arizona State University

Ethel Browne, Hans Spemann, and the Discovery of the Organizer: Howard M. Lenhoff, University of California at Irvine

Carter Administration Responses to Genetic Engineering: Edward Larson, University of Georgia

The Year 1846/47 in Harvard Science: A Study of Documents and Events: Clark A. Elliott, Harvard University

Private Funding, Public Science: Geologists and the Oil Industry in Nineteenth-Century America: Paul Lucier, Princeton University

She Was Ignored: Ida Noddack and the Discovery of Nuclear Fission: Teri Hopper, Stanford University


Sinister Science: Genetics and Eugenics in Germany, 1900–1950: A. S. Baer, Oregon State University

24. Natural History, Language, and Gender
4:00 p.m.—5:45 p.m.
Chair and commentator: Mordechai Feingold, Virginia Polytechnic Institute and State University

Scientific Knowledge and the Female Audience in Early Modern England: Juliet Fleming, Harvard University

A Place for Women: The Romantic Botany of Jean-Jacques Rousseau and Johann Wolfgang von Goethe: Lisbet Koerner,* Harvard University

Kant on Women's Natures: New Evidence from the Anthropology Lectures: Steven Lestition, University of Chicago

*Session organizers are indicated by an asterisk.
25. Science in the Pacific: Darwinian Perspectives
4:00 p.m.–5:45 p.m.
Chair: Philip E. Rehbock, * University of Hawaii
Darwin and the West Coast Exchange Network: Keith Benson, University of Washington
Darwin's Correspondents in the Pacific: Janet Bell Garber, Independent Scholar
The Darwinian Enlightenment and New Zealand Politics: John Stenhouse, Saint Marks College, University of British Columbia
Commentator: David Stoddart, University of California at Berkeley

26. Geology and Geological Communities in Nineteenth-Century North America
Cosponsored by the Forum for the History of Science in America
4:00 p.m.–5:45 p.m.
Chair: Joanne Bourgeois, University of Washington
Looking for the Unity in Community: American Geologists in the Antebellum Period: Julie Newell,* University of Wisconsin at Madison
Early State Geological Surveys in the Trans-Mississippi West: Rex Buchanan, Kansas Geological Survey
Commentator: Sally Gregory Kohlstedt, University of Minnesota

27. Was There a Scientific Revolution in the Sixteenth and Seventeenth Centuries?
4:00 p.m.–5:45 p.m.
Chair and commentator: Robert Westman,* University of California at San Diego
[New] Master Narrative(s), Yes; "Scientific Revolution," No Thanks: John Schuster, University of Wollongong
"Revolution" and the New Science: Gary Hatfield, University of Pennsylvania
It Was a Whole New Experience . . . . Peter Dear, Cornell University

28. Probabilities and Uncertainties: At the Nexus of the Natural and Social Sciences
Cosponsored by the Forum for History of Human Science
4:00 p.m.–5:45 p.m.
Chair: Theodore Porter, University of Virginia
William James's Scientific Education: A Case Study in the Impact of the Probabilistic Revolution: Paul Croce,* Stetson University

29. Maxwell and Hertz
4:00 p.m.–5:45 p.m.
Chair: Jed Z. Buchwald,* University of Toronto
The Psychohistory of Saturn's Rings: C. W. F. Everitt, Stanford University
Text and Context in Maxwell's Electromagnetic Theory: Daniel M. Siegel, University of Wisconsin at Madison
Models and Reality in Nineteenth-Century Physics: Margaret Morrison, University of Toronto
Commentator: Norton Wise, University of California at Los Angeles

30. Works in Progress: Modeling and Measurement
4:00 p.m.–5:45 p.m.
Chair: Lawrence Badash, University of California at Santa Barbara
From an Art to a Science: The Evolution of Mathematics in Civil Engineering and Arch Dam Design: Nancy Farm Mannikko, Virginia Polytechnic Institute and State University
Visualizing the Invisible: The Nature of Sound and the Science of Acoustics in the Nineteenth Century: Emily Thompson, Princeton University
Models of the Universe in the Palm of One's Hand: Sarah Schechner Genneth, Adler Planetarium, Chicago
Forensic Medicine and the Law of Proof in Early Modern Europe: Catherine Crawford, Wellcome Institute for the History of Medicine

President's Reception for Members of the Council and Committee Chairs
6:00 p.m.–7:00 p.m.

HSS Reception
6:00 p.m.–8:00 p.m.

Dinner for the Isis Editorial Board
7:30 p.m.–9:30 p.m.

Forum for the History of Science in America
8:30 p.m.–9:30 p.m.

Forum for History of Human Science
8:30 p.m.–9:30 p.m.
Saturday, 27 October

**HSS Committee on Education: Breakfast Meeting**  
7:00 a.m.–8:30 a.m.

**HSS Committee on Finance: Breakfast Meeting**  
7:00 a.m.–9:00 a.m.

**HSS Committee on Meetings and Programs: Breakfast Meeting**  
7:30 a.m.–8:30 a.m.

**HSS Committee on Publications: Breakfast Meeting**  
8:00 a.m.–12:00 noon

31. **Gendered Visions in the French Human Sciences**  
Cosponsoried by the Forum for History of Human Science  
8:30 a.m.–10:15 a.m.  
Chair: Donna Haraway, University of California at Santa Cruz  
The Sex of Weakness and the Force of Knowledge: Gender in the Psychology of Pierre Janet: John Brooks,* University of Hartford, Nancy Burke, Amherst College  
Was There a Pornographic Moment in French Anthropology? Limits of the Feminist Critique: Richard Gringeri, University of Chicago  
Gendering French Sociology: Sexual Politics in Comte and Durkheim: Jean Pederson, University of Chicago  
Commentator: Martha Hildreth, University of Nevada at Reno

32. **From Eugenics to Human Genetics: A Comparative Perspective**  
8:30 a.m.–10:15 a.m.  
Chair: Diane B. Paul,* University of Massachusetts at Boston  
Developmental Genetics and Psychology during the Nazi Period: A Case Study: Mitchell G. Ash, University of Iowa  
After Eugenics: The Emergence of Human Genetics, 1933–1955: Diane B. Paul  
Commentator: Mark Adams, University of Pennsylvania

33. **Periodization in the Earth Sciences**  
8:30 a.m.–10:15 a.m.  
Chair and commentator: Bruce Hevly, University of Washington  
Oceanography’s Double Life: Mott Greene,* University of Puget Sound  
Look Out the Window! Perception, Practice, and Periodization in Meteorology: Robert Marc Friedman, University of California at San Diego  
Oceanographic Surveys and Military and Commercial Concerns: Henry Frankel, University of California at San Diego

34. **Theory versus Practice in Agricultural Science**  
8:30 a.m.–10:15 a.m.  
Chair: Jonathan Harwood,* University of Manchester  
Mendelian Genetics and Plant Breeding Practice in Interwar Britain: Paolo Palladino, University of Manchester  
The Bureau of Animal Industry and the Introduction of Research into Veterinary Medicine: Patricia Gossel, Smithsonian Institution  
Soil Microbiology and Clean Milk: Agricultural Bacteriology in Britain, 1912–1939: Keith Vernon, University of Manchester  
Commentator: Barbara Kimmelman, Philadelphia College of Textiles and Science

35. **Panel Discussion: Does Big Science Exist? Should It?**  
8:30 a.m.–10:15 a.m.  
Chair: Nathan Reingold,* Smithsonian Institution  
Robert W. Smith, Johns Hopkins University and Smithsonian Institution  
Lillian Hoddeson, University of Illinois at Urbana-Champaign and Fermilab, Batavia, Illinois  
Lily E. Kay, Massachusetts Institute of Technology

36. **Galileo’s Science and Court Culture**  
8:30 a.m.–10:15 a.m.  
Chair and commentator: William Ashworth, University of Missouri at Kansas City  
Re-Frying Galileo: Robert Westman, University of California at San Diego  
Jesuit Theater and Court Culture: Rivka Feldhay, Tel Aviv University  
Court Culture and Galileo’s Trial: Mario Biagioli,* University of California at Los Angeles

37. **Works in Progress: Psychology, Philosophy, and the Human Sciences**  
8:30 a.m.–10:15 a.m.  
Chair: Margo Horn, Stanford University  
An American Paleontologist on Human Origins: William King Gregory Enters Early Twentieth-Century Anthropology: Sheila Dean, Johns Hopkins University  
Human Stability and Locomotion in Bain’s and Preyer’s Developmental Psychologies: Mary Mosher Fleshcr, Smith College  
The Grounds for Mach’s Rejection of Atomism: Hazim Murad, University of Malaysia  
From Comrade Scientist to Comrade Therapist: McCarthy-Era Career Changes among Leftist Psychologists: Benjamin Harris, University of Wisconsin at Parkside  
Gaston Bachelard’s Sociohistorical Epistemology: An Approach to the Historical Foundations of Science Studies: Teresa Castelão, Virginia Polytechnic Institute and State University  
Wundt’s Ethics in Relation to His Psychology: Adrian Brock, York University
38. Panel Discussion on the History of Sexuality: Deviants and Doctors  
10:30 a.m.–12:15 p.m.  
Chair: Arnold Davidson,* University of Chicago  
Styles of Reasoning about Sexual Perversions: Arnold Davidson  
Sex and the Doctors: Thomas Laqueur, University of California at Berkeley  
The Emergence of the Sexual Fetish: Robert Nye, University of Oklahoma

39. Constructing Biological Knowledge through Collaboration  
10:30 a.m.–12:15 p.m.  
Chair: Jane Maienschein,* Arizona State University  
Why Collaborate? Jane Maienschein  
Into the Museum: Levels of Collaboration and the Aims of Science: James R. Griesemer, University of California at Davis  
Into the Lab: Creating a Molecular Knowledge of Life: Lily E. Kay, Massachusetts Institute of Technology  
Into the Field: Scientific Collaboration and Diplomacy in the Atomic Bomb Casualty Commission: John Beatty, University of Minnesota

40. Reinterpreting Paris Medicine, 1789–1850  
10:30 a.m.–12:15 p.m.  
Chair: John Harley Warner, Yale University  
Reevaluating Nineteenth-Century European Medical Education: Were There National Styles? Arleen Tuchman, Vanderbilt University  
The Menu, Not the Meal: Reconsidering Medicine and the French Revolution: Russell Maulitz, Presbyterian Medical Center, Philadelphia  
Teachers and Students of Medical Microscopy in Paris, 1830–1848: Ann LaBerge,* Virginia Polytechnic Institute and State University  
Roundtable Discussion

41. Climate Change in Historical Perspective  
10:30 a.m.–12:15 p.m.  
Chair: Daniel J. Kevles, California Institute of Technology  
Climate and Its History in the Late Enlightenment and Early Romantic Period: Theodore Feldman, University of Southern Mississippi  
Imagining the Human Impact on Climate: From Tyndall to Little Orphan Annie: Spencer Weart, American Institute of Physics, New York  
The Changing Nature of Climatic Change: James Fleming,* Colby College  
Commentator: Robert Marc Friedman, University of California at San Diego

42. Science in the Haunted Fifties  
Cosponsored by the Forum for the History of Science in America  
10:30 a.m.–12:15 p.m.  
Chair: Lawrence Badash, University of California at Santa Barbara  
Communism at Caltech: Lawrence Badash, Judith Goodstein,* California Institute of Technology  
Project Vista: Scientists and Nuclear Weapons: David Elliot, California Institute of Technology  
Witch-Hunting of Scientists: Linus Pauling, Linus Pauling Institute of Science and Medicine, Palo Alto, California

43. Semiotics and the Languages of Science  
10:30 a.m.–12:15 p.m.  
Chair: Evelyn Fox Keller, University of California at Berkeley  
Gender and Semiotics: The Author as Nothing in Early Modern British Women’s Texts: Catherine Gallagher, University of California at Berkeley  
The Problem of Signifying the Scientific Author: Evelyn Fox Keller  
The Semiotics of Mathematics: Brian Rotman, Independent Scholar  
The Semiotics of Chemistry: Stephen Weininger, Worcester Polytechnic Institute and Massachusetts Institute of Technology

44. Works in Progress: Evolution and Ecology  
10:30 a.m.–12:15 p.m.  
Chair: Mott Greene, University of Puget Sound  
Evolution and Taxonomy: The Research School in Evolutionary Entomology at Cornell University, 1880–1930: Pamela M. Henson, Smithsonian Institution Archives  
Race in the Biology and Sociology of Clémence Royer: Sara Joan Miles, Wheaton College  
Science and Conservation in Mexico: Lane Simonian, University of California at Santa Barbara  
Natura facit saltum: The Origins of T. H. Huxley’s Saltationalism: Sherrie Lyons, University of Chicago  
Terms of Estrangement: “Catastrophism,” “Gradualism,” and the K-T Bolide Debate: Steven Wyman, University of Missouri  
The Curious Case of Paul Du Chaillu: A Case Study in the Construction of Scientific Facts: Stuart McCook, Rensselaer Polytechnic Institute

HSS Committee on Women: Luncheon  
12:15 p.m.–1:30 p.m.  
This session is open to all HSS members interested in women and science.  
*Session organizers are indicated by an asterisk.
The Rockefeller Foundation’s Program in Neurophysiology: Politics and Instrumentation in the Medical Sciences
Division: Joy Harvey, Virginia Polytechnic Institute and State University

The Spanish Laboratory Crisis of the 1920s: Rockefeller Foundation Officers Assess the Culture of Scarcity: Thomas Glick, Boston University

The Rockefeller Foundation and Spectroscopy Research: Comparing the Programs at Utrecht and Chicago: Doris Zallen, Virginia Polytechnic Institute and State University

What Did Weaver Do If He Did Not Create Molecular Biology? The Impact and Limitations of an Aspiring Science Statesman: Pinna Abir-Am, * Stanford University

Commentators: Hamilton Cravens; Henrika Kuklick, University of Pennsylvania

49. Helmholtz Studies Today
1:30 p.m.–3:15 p.m.

Chair: To be announced

The Young Helmholtz: David Cahan, * University of Nebraska

Helmholtz’s Early Physiological Experiments: Kathryn Olesko, Georgetown University; Frederic L. Holmes, Yale University

Helmholtz and the Education of the Senses: Timothy Lenoir, Stanford University

Commentator: Robert Richards, University of Chicago

50. Workshop on Teaching Survey Courses in the History of Science
Sponsored by the Committee on Education
1:30 p.m.–3:15 p.m.

Richard W. Burkhardt, Jr., University of Illinois at Urbana
Sharon Kingsland, * Johns Hopkins University
Stephen McKnight, University of Florida

51. Works in Progress: Physics and Mathematics
1:30 p.m.–3:15 p.m.

Chair: Max Dresden, Stanford University and Stanford Linear Accelerator Center

The Neutrino Concept, 1930–1956: Charles Atchley, University of Minnesota

Karl Compton and the Role of the University President in Research Administration: Joel Genuth, Massachusetts Institute of Technology

Public and Private Science: The Case of Cold Fusion: Bruce Lewenstein, Cornell University

Radioactive Contamination and Public Policy at the Hanford Nuclear Reservation: The Airborne Contaminants: Michele Stenehjem, Independent Scholar

Zabarella, Piccolomini, and the Gradual Transition from Inductive Logic to Analytical Mathematics: Joerg Maas, Harvard University

Parere nominibus: Robert Hooke’s Advice to Robert Boyle: Edward Davis, Messiah College
52. Applied History of Science and Technology
3:30 p.m.—5:15 p.m.
Chair: John Heilbron, University of California at Berkeley

Applied History of Science in “The Mechanical Universe and Beyond”: David L. Goodstein, California Institute of Technology

History of Science in the Space Program: NASA: Sylvia D. Fries, National Aeronautics and Space Administration

Commentator: Ronald J. Overmann,* Program in History and Philosophy of Science, National Science Foundation

53. The Transition from Biochemical to Molecular Genetics
3:30 p.m.—5:15 p.m.
Chair and commentator: Rollin Hotchkiss, Rockefeller University

From Chemical to Molecular Explanation in Genetics and Cell Biology: Changing Styles in Scientific Explanation: Bernardino Fantini, University of Rome

Precursors of the Central Dogma: From Cellular Physiology and Cytchemistry to the Molecular Biology of the Genetic Material: Richard Burian,* Virginia Polytechnic Institute and State University

How DNA Was Received, 1944–1953: Joshua Lederberg, Rockefeller University

The Impact of Biochemical and Molecular Concepts and Methodology on Human and Medical Genetics: Arno Motulsky, University of Washington

54. Measurement and Dispute in Eighteenth-Century Science
3:30 p.m.—5:15 p.m.
Chair: Mary Terrall, * University of California at Los Angeles

The Nicety of Experiment: The Persuasive Power of Precision Measurement in the Chemical Revolution: Jan Golinski, University of New Hampshire


Philosophes versus Instrument Makers: The Dispute over the Invention of the Achromatic Lens: Richard Sorrenson, Indiana University

The Polemics of Measurement: The Shape of the Earth in the 1730s: Mary Terrall

55. Science, Politics, and Praxis: Justus Liebig and Agricultural Chemistry
3:30 p.m.—5:15 p.m.
Chair: Patrick Munday,* Cornell University

Liebig’s Plans for the Utilization of London’s Sewage: W. H. Brock, University of Leicester

Sewage, Soup, and Soil Robbery: Justus von Liebig and the Social Issues of the 1860s: Mark Finlay, Iowa State University

Liebig’s Role in the Establishment of Agricultural Chemistry: Ursula Schling-Brodersen, Arizona State University


Liebig’s Metamorphosis: From Organic Chemistry to Plant Physiology: Patrick Munday

56. Rereadings: The Public Texts of Vannevar Bush
3:30 p.m.—5:15 p.m.
Chair: Michael Dennis,* Johns Hopkins University

Endless Politics on the Endless Frontier: Daniel J. Kevles, California Institute of Technology

Pieces of the Action: An Engineer Tells a Story; or, A Fable of Instrumental Reason: Larry Owens, University of Massachusetts at Amherst

Keeping the Faith: The Political Accounting of Modern Arms and Free Men: Michael Dennis

Commentator: David A. Hollinger, University of Michigan

57. Huygens, Light, and Gravity
3:30 p.m.—5:15 p.m.
Chair: Thomas L. Hankins, University of Washington

Mechanical Theories of Gravity: James Evans, University of Puget Sound

Mathematical Analysis of Gravitation: Huygens versus Newton: François de Gandt, Centre National de Recherche Scientifique, Paris

Behind Every Good Treatise Is a Manuscript: The Codices Hugeniorum: Joella Yoder,* Independent Scholar

Huygens and the Relativity Principle: Christiane Vilain, University of Paris VII

58. Works in Progress: Astronomy
3:30 p.m.—5:15 p.m.
Chair: Wilbur Knorr, Stanford University


John Evans and the Lost Port Orford Meteorite Hoax: Howard Plotkin, University of Western Ontario

Numerical Calculations in Ptolemy’s Almagest: Glen Van Brummelen, Simon Fraser University

A Perplexing Family of Annotations in Copernicus’s De revolutionibus: Owen Gingerich, Harvard-Smithsonian Center for Astrophysics

Visually Representing the Moon as a Geological Object, 1958–1970: Mark Hineline, University of California at San Diego

“Ye Force of All Ye Reflections”: Newton’s Polygon Model for Circular Motion: Herman Erlichson, College of Staten Island, CUNY
Saturday—continued

The History of Science Society Distinguished Lecture
5:30 p.m.—6:30 p.m.
The Middle Ground: Finding a Place between Science and History: Owen Hannaway, Johns Hopkins University

HSS Cocktail Party
6:30 p.m.—7:30 p.m.

HSS Annual Banquet
7:30 p.m.—9:30 p.m.

Graduate Student Party
9:30 p.m.—11:30 p.m.

Sunday, 28 October

59. Plenary Session: The Social History of Objectivity
9:00 a.m.—11:00 a.m.
Chair: Ernan McMullin, University of Notre Dame
Divers Reports: The Constitution of Credibility in Seventeenth-Century Science: Steven Shapin, University of California at San Diego
The Objectivity of Interchangeable Observers, 1830–1900: Lorraine Daston, University of Gottingen
Quantification and the Accounting Ideal in Science: Theodore Porter, * University of Virginia
Commentator: Peter Dear, Cornell University

HISTORY OF SCIENCE SOCIETY ANNUAL MEETING □ 25–28 OCTOBER 1990
HOLIDAY INN CROWNE PLAZA, SEATTLE, WASHINGTON

PREREGISTRATION FORM
Mail completed form with your check (in U.S. dollars, made payable to the History of Science Society) to:
HSS Registrations
Department of Medical History and Ethics, SB-20
University of Washington
Seattle, WA 98195 (206) 543-5447

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If you wish to be matched with a roommate, or are requesting graduate student housing, please send this form and the registration forms to:
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(206) 543-5447

TOTAL ENCLOSED (Make checks payable in U.S. dollars to the History of Science Society)

I need child care services for the following dates and times (for children 2 years and older)

HOTEL RESERVATION FORM
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Name ________________________________
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Length of stay ____________ nights

Reservations held only until 6 p.m. unless guaranteed with major credit card or deposit. Credit card type ____________________________
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I would like to share a room with another member of this group selected by the Local Arrangements Committee.

I am interested in shared housing at reduced rates for graduate students.

Others should send this reservation form directly to the hotel:
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(206) 464-1980
(800) 521-2762 outside Washington

All reservation requests must be received by 27 SEPTEMBER 1990 to be eligible for these rates.
FELLOWSHIPS & GRANTS AVAILABLE

The American Council of Learned Societies will again award fellowships and grants for 1991/92. All require U.S. citizenship or permanent legal residence; requests for application forms must indicate citizenship or permanent residence, highest academic degree held and date received, academic or other evidence, subject of research or study, period of time for which support is requested, and the specific program under which application is contemplated. Programs are as follows:

- ACLS Fellowships for Research in the Humanities, application deadline 1 October 1990. ACLS Research Fellowships for Recent Recipients of the Ph.D., application deadline 1 October 1990. ACLS Grants-in-Aid, to support expenses of humanistic research in progress, application deadline 14 December 1990. Fellowships for Chinese and East European Studies, application deadline 15 November 1990. Potential applicants should note that the Council has had to suspend the award of travel grants for U.S.-based scholars attending international meetings pending the success of its own grant-seeking efforts, but hopes to resume the program in the near future. (Individuals can ask to be notified if and when the program is resumed.) For further information and application forms contact the Office of Fellowships and Grants, American Council of Learned Societies, 228 East 45th Street, New York, NY 10017-3398.

The American Institute of Physics Center for History of Physics continues its program of grants-in-aid (up to $2,000) for research in the history of modern physics and allied sciences (such as astronomy, geophysics, and optics) and their social interactions. The grants are awarded only to reimburse direct expenses connected with the research, with preference for those who use part of the funds to work at the center’s Niels Bohr Library or to microfilm papers or to tape-record oral history interviews (with a copy deposited in the library). Applicants should either be working toward a graduate degree in the history of science or show a record of publication in the field. They should send a vita, a letter of no more than two pages describing their research projects, and a brief budget showing the expenses for which support is requested to Spencer R. Weart, Center for History of Physics, American Institute of Physics, 335 East 45th Street, New York, NY 10017. Deadlines for receipt of applications are 30 June and 31 December of each year.

The Columbia Society of Fellows in the Humanities will appoint several postdoctoral fellows (who received the Ph.D. between 1 January 1986 and 1 July 1991) for 1991/92. The appointment carries a stipend of $31,000 (one half for independent research and one half for teaching in the undergraduate program in general education) and the expectation of renewal for a second year. Additional funds are available to support research. Application forms must be returned by 15 October 1990 and can be obtained from the Director, Society of Fellows in the Humanities, Columbia University, Box 200, Central Mail Room, New York, NY 10027.


The Folger Shakespeare Library will award two kinds of fellowships for 1991/92 for research projects appropriate to the library’s collections: long-term fellowships for senior scholars (for periods of six to nine months with stipends of up to $27,500); and short-term postdoctoral fellowships (for terms of one to three months with stipends of up to $1,500 per month). Applicants should submit Folger application forms supported by copies (six for potential long-term fellows, three for potential short-term fellows) of both a 500-word description of the research project and a curriculum vitae, including a list of publications. All applicants should also have three letters of reference sent directly to the Fellowship Committee. Applications must be received by 1 November 1990 (for long-term fellowships) and by 1 March 1991 (for short-term fellowships). For further information contact Sharon Carroll, Folger Shakespeare Library.

Continued on next page

Teaching in the History of Science
Resources & Strategies

A booklet of six essays by leading specialists in history of science that contains suggestions for teaching important topics in the field. These teaching guides are intended for the use of historians of science, general historians, and any other teachers who wish to plan a new history of science course, to revise an existing course in the field, or to incorporate history of science topics in general history courses.

Contents:

- Stanley Goldberg: Introduction
- Garland E. Allen: Life Sciences in the Twentieth Century
- Bruce Eastwood: History of Science in the Survey Course in European History
- Loren Graham: Science and Technology in Russia and the Soviet Union
- Dorothy Nelkin: Science, Technology, and Public Policy
- John Servos: History of Science and the Survey Course in American History
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Felllowships & Grants—continued
Library, 201 East Capitol Street, SE, Washington, DC 20003.

Harvard University will award Andrew W. Mellon Faculty Fellowships in the Humanities for 1991/92 to untenanted junior scholars who have completed the Ph.D. by 30 June 1989 and at least two years of postdoctoral teaching as college or university faculty in the humanities by the time of appointment. The one-year appointment includes a $30,000 salary, departmental affiliation, and opportunity to develop scholarly research and requires limited teaching. Special consideration will be given to candidates who have not recently had access to the resources of a major research university. Applications are due by 1 November 1990, and awards will be announced by 1 February 1991. For further information (including application procedures) contact Richard M. Hutt, Program Director, Harvard University Mellon Faculty Fellowships, Lamont Library 202, Cambridge, MA 02138; (617) 495-2519.

The Institute for Advanced Study School of Historical Studies, Princeton, offers research fellowships and temporary memberships for periods ranging from three months to two years. Requirements, appointment details, stipends, application procedures, and deadlines vary with the program, but the Ph.D. (or equivalent) and substantial publications are required of all candidates. For further information and application materials contact the Administrative Officer, School of Historical Studies, Institute for Advanced Study, Princeton, NJ 08540.


The Institute for the History and Philosophy of Science and Technology of the University of Toronto awards the one-year, renewable Kenneth O. May Fellowship to a graduate student specializing in the history of mathematics. The Institute offers Master of Arts and Doctor of Philosophy degree programs; a major in the history of mathematics may include courses in the history of

Rush-Presbyterian St. Luke’s Medical Center, Chicago, seeks an archivist to manage an established archives for a medical center that includes a health sciences university whose roots go back to the founding of the Rush Medical College in 1837. Applicants should submit applications, résumés, and three letters of reference to Bruce Rattenbury, Associate Vice President, Philanthropy and Communication, RPSLMC, Suite 250, 1700 West Van Buren, Chicago, IL 60612.

York University, Toronto, Ontario, Canada, invites applications for a senior appointment in the political economy and history of science and technology, effective 1 July 1991. A critical, interdisciplinary approach to the subject is essential. Attention to the relationship between gender and the development of science and technology is preferred, as is experience in teaching social science to students majoring in science. Applicants must have a Ph.D. or equivalent and a strong record of scholarly research and publication. Send curriculum vitae and names of three references to Paul Axelrod, Chair, Division of Social Science, Faculty of Arts, York University, North York (Toronto), Ontario M3J 1P3, by 1 September 1990. Candidates are asked to have three letters of reference sent directly to the Chair. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

POSITIONS

This list is compiled with Anne Millbrook, Archivist of United Technologies, Inc., and includes all position announcements brought to the Society’s attention. Individual notices are drawn (and often condensed) from many sources and (for positions in the United States and Canada) usually include affirmative action statements or their equivalent. The Society cannot assume any responsibility for the accuracy of any listing, and potential applicants should double- and triple-check all requirements, especially closing dates.

The Medical College of Pennsylvania, Philadelphia, seeks a Curator of Photographs to manage its collection of twelve thousand historic photographs. Duties include cataloging, preservation, and reference service. For further information contact Janet Miller, Director and Archivist, Archives and Special Collections on Women in Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129.

The Museum of Science and Industry, Chicago, seeks a Science Exhibit Developer to “research topics in contemporary science, technology, and medicine and develop them into exhibits understandable and relevant to the general public.” Candidates should have museum, public education, project management, and hands-on laboratory or workshop experience; excellent writing skills; and experience and skills in using computers and other kinds of exhibit equipment. Submit letters of application, curriculum vitae, and three letters of recommendation to Human Resources Department, Museum of Science and Industry, 57th Street and Lake Shore Drive, Chicago, IL 60637-2093.

The National Museum of Natural History, Smithsonian Institution, Department of Anthropology, invites applications for the position of Director of the National Anthropological Archives, a major repository of anthropological field notes, manuscripts, and photographs from around the world. Archivists with knowledge of anthropology and anthropologists, historians of anthropology and related disciplines, and others with knowledge, training, and experience in archives and anthropology are encouraged to apply. Responsibilities include supervising employees, managing budget, establishing and implementing archival policy, expanding collections, and setting directions for future development. Starting salary $42,601-$50,342 (GM-1420-1.3'/14). Demonstrated scholarly ability desired; applicants must have Ph.D. Send curriculum vitae, SF-171, letter of application, and three references to Smithsonian Institution, Office of Personnel Administration, Branch 1, P.O. Box 23762, Washington, DC 20026-3762 (Attn: 90-1058) by 30 June 1990. For further information contact Mariann Horejsi, (202) 287-3100, ext. 224.
FOR THE RECORD

Argonne National Laboratory sought an author to write its history. For further information contact Harry W. Conner, Public Affairs Director, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439; (708) 972-5583.

The University of Melbourne advertised a three-year limited-tenure lectureship in the Department of History and Philosophy of Science. The search closed on 25 May 1990. For further information contact the Head of Department, Jan Sapp, University of Melbourne, Parkville, Victoria 3052, Australia; phone (03) 344-6688, FAX (03) 344-7959.

The Mid-Continent Railway Historical Society sought a full-time Executive Director. For further information contact the Mid-Continent Search Committee, P.O. Box 14405, Madison, WI 53714.

The National Aeronautics and Space Administration sought a Supervisory Historian to serve as Chief Historian and Director of the NASA History Division. The search closed on 18 May 1990. For further information contact Catherine Zegowitz, Code DP, NASA Headquarters, 400 Maryland Avenue, SW, Washington, DC 20546; (202) 453-8507.

The National Endowment for the Humanities announces eligibility guidelines that clarify the distinction between its Division of Research Programs and Division of Fellowships and Seminars. Both divisions support scholarly research in the history of science, and individuals (including unaffiliated scholars) are eligible in both divisions. Projects submitted by an institution, or longer than one year in duration, or including costs in addition to salary support for the project director are considered only through the Division of Research Programs. The Division of Fellowships and Seminars, on the other hand, reviews proposals for research projects that are submitted by an individual, and request one year or less of support, and are confined exclusively to salary costs for the individual project director. To receive information on any NEH program contact the Office of Publications and Public Affairs at (202) 786-0254. Proposals submitted to the inappropriate division will be declared ineligible, and applicants will be required to wait until the next deadline of the appropriate program to apply. Applicants who are unsure about the appropriate program for their project may discuss their projects with Daniel Jones, Program Officer for Humanities, Science, and Technology, at (202) 786-0210.

and application forms may be obtained from the Chief, History of Medicine Division, National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894; (301) 496-5405. The closing date is 15 December 1990.

The National Women's Studies Association awards several scholarships and fellowships to graduate students and other scholars. These include two Pergamon-NWSA Scholarships for interdisciplinary graduate work in Women's Studies, one award for graduate work in Jewish Women's Studies, one award in Lesbian Studies, and one fellowship for a visiting student or scholar from the People's Republic of China for research about women, national liberation movements, or areas that might have a special impact on the lives of women in China. For further information and application materials contact NWSA, University of Maryland, College Park, MD 20842-1325; (301) 454-3757.

Continued on next page
**Fellowsips & Grants — continued**

The Royal Society awards grants between £100 and £5,000 (for up to four years) to promote and support research in the history of science, including mathematics, medicine, and technology. Applicants must live within the United Kingdom. For further information contact Mrs. S. M. Edwards, Royal Society, 6 Carlton House Terrace, London SW1Y 5AG; phone 071-8395561, ext. 261.

Stanford University awards Andrew W. Mellon Postdoctoral Fellowships in the Humanities to highly promising scholar-teachers who received their Ph.D.s after June 1984 and before September 1991. These one-year nonfaculty positions carry annual stipends of $30,500 plus benefits, departmental affiliation, limited teaching duties, and the opportunity for scholarly work and intellectual growth and are renewable for a second year. All materials, including application forms and three letters of reference, are due no later than 15 November 1990; applicants will be notified in late February 1991. For application forms and further information contact the Office, Woodrow Wilson Center, 1776 Massachusetts Avenue NW, Washington, DC 20036; (202) 737-2275.

The Vatican Film Library at Saint Louis University provides short-term Mellon Fellowships for the years 1991–1993 to pay the travel expenses and per diem allowances of postdoctoral researchers or dissertation writers using the library’s collection for well-defined projects. Projects can be scheduled only in one of three periods during 1991: 15 January–15 May, 1 June–31 July, and 1 September–22 December. For further information contact the Andrew W. Mellon Fellowship Program, Vatican Film Library, Pius XII Memorial Library, Saint Louis University, 3650 Lindell Blvd., Saint Louis, MO 63108.

The Woodrow Wilson International Center for Scholars awards approximately forty residential fellowships each year for advanced research in the humanities and social sciences. The application deadline is 1 October 1990. For further information and application materials contact the Fellowships Office, Woodrow Wilson Center, Washington, DC 20560; (202) 357-2841; FAX (202) 357-4439.

**MEETINGS & CALLS FOR PAPERS**

The American Society for Environmental History will sponsor a conference, *The Environment and the Mechanized World*, 28 February–3 March 1991, at the University of Houston. Proposals for individual papers, works in progress, panels, or workshops should include a one-paragraph abstract for each presentation and a one-paragraph résumé for each participant and should be sent by 15 September 1990 to Martin V. Melosi, Department of History, University of Houston, Houston, TX 77204-3785; (713) 749-2967.

The Crustacean Society will celebrate its tenth anniversary with a symposium, *The History of Carcinology*, to be held at the annual meeting of the American Society of Zoologists, 27–30 December 1990, in San Antonio, Texas; the symposium is cosponsored by the ASZ Division of History and Philosophy of Biology. It welcomes papers on any aspect of the history of research on Crustacea. For further information contact Frank M. Truesdale, School of Forestry, Wildlife, and Fisheries, Louisiana State University, Baton Rouge, LA 70808.

The American Chemical Society's divisions of Chemical Education and History of Chemistry will sponsor a 200th anniversary symposium, *Michael Faraday: Chemist and Popular Lecturer*, at the ACS spring meeting in Atlanta, Georgia, 15–16 April 1991. The session will feature both invited and contributed papers; potential participants should contact Derek A. Davenport, Department of Chemistry, Purdue University, West Lafayette, IN 47907; (317) 494-5465.

**PRIZE COMPETITIONS**

The American Association for the Advancement of Science invites nominations for the 1990 AAAS/Westinghouse Award for Public Understanding of Science and Technology, which carries a $2,500 stipend and recognizes scientists and engineers who make outstanding contributions to the popularization of science and are not members of the media. The deadline for nominations is 1 August 1990. For further information contact Patricia S. Curlin, Award Administrator, Committee on Public Understanding of Science and Technology, American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005; (202) 371-9526.

The Mexican Society for History of Science and Technology (SMHCT), the Universidad Nacional Autónoma de México, the Universidad Autónoma Metropolitana, and the National Council of Science and Technology invite entries for the *Dr. Enrique Beltran Prize* for the best essay on any aspect of the history of Mexican science and technology. The prize consists of five million pesos, and the winning essay will be published. Entries must be at least 150 pages long, signed with a pseudonym, and, if not written in Spanish, accompanied by a translation. The name, address, and telephone number of the author(s) should be put in a separate envelope. Essays must be sent by 30 June 1990 by certified mail to SMHCT, Apartado Postal 21-873, C.P. 04000 México, D.F., México. For further information write to Prof. Juan José Saldaña at this address.

The Society for the History of Alchemy and Chemistry has established the *Partington Prize* (of £100), awarded every three years for an original and unpublished essay on any aspect of the history of alchemy or chemistry. The next closing date is 31 December 1990, and further details can be obtained from Ann Newmark, Science Museum, South Kensington, London, SW7 2DD.

The British Society for the History of Science awards the *Singer Prize* every two years to the writer (of any nationality) of an unpublished essay based on original research into any aspect of the history of science, technology, or medicine. The closing date for entries all candidates must be either (1) under thirty-five years of age or (2) within five years of first registering for a postgraduate degree in the history of science or some related discipline. Essays must not exceed six thousand words (excluding footnotes) and must be fully documented, typewritten with double-line spacing, and submitted in English. The total amount available for the prize is...
Duke University will host a conference, The History of Game Theory, 5–6 October 1990, with sessions on [among other topics] the early history of strategic games, the beginnings of game theory at Princeton, the early work at Michigan, and game theory and operations research, philosophy, and political science. For further information contact E. Roy Weintraub, Department of Economics, Duke University, Durham, NC 27706.

The International Society for the History, Philosophy, and Social Studies of Biology will meet at Northwestern University, 11–14 July 1991. The Spring 1990 issue of the ISHPSSB Newsletter—copies of which are available from Peggy Stewart, ISHPSSB Secretariat, Science Studies Center, 102 Price House, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0247, (703) 231-8471—presents suggestions for potential contributors and extensive details about current plans and provides much information about the Society itself. For further information about the conference contact Peter Taylor, STS Program, Cornell University, 632 Clark Hall, Ithaca, NY 14853; e-mail pjt@cornella.bitnet.

The International Society for the History of Rhetoric will hold its biennial conference 25–29 September 1991 in Baltimore and Washington, D.C., and solicits papers on [among other topics] the history of rhetoric and science. For further information contact N. Struver, Humanities Center, Johns Hopkins University, Baltimore, MD 21218.

The third Latin American Congress of History of Science and Technology will be held in Mexico City, 12–16 January 1992. Its general theme will be “America in the Formation of a New World: 500 Years of Scientific Exchanges.” The organizers explicitly invite contributions in English and urge potential U.S.-based participants to contact Nathan Reingold, National Museum of American History, Smithsonian Institution, Washington, DC, 20560; (202) 357-2183. For general information and copies of the first circular contact the chair of the organizing committee, Juan José Saldaña, Apartado postal 21-873, 04000 México, D.F., México.

Macrocoss in Microcosmos, a conference on the history of natural history cabinets and Wunderkammer of the fifteenth through eighteenth centuries, will be held 3–6 December 1990 in West Berlin. For further information contact the Institut für Museumkunde (which is sponsoring the meeting), z. H.d. Herrn Dr. Andreas Grote, In der Halde 1, D-1000 Berlin 33, Federal Republic of Germany.

The University of Wisconsin at La Crosse will hold a Math-History Conference, 5–6 October 1990, and solicits original papers on the history of mathematics. For further information contact the conference’s organizers at the Department of Mathematics, University of Wisconsin, La Crosse, WI 54601.

The Missouri Valley History Conference will be held in Omaha, Nebraska, 14–16 March 1991. Proposals for papers and sessions in all areas of history are welcome and should be submitted by 1 November 1990, with abstracts and vitae, to William C. Pratt, Program Coordinator, MVHC, University of Nebraska, Omaha, NE 68182.

The Department of History, University of Lancaster, and the journal History of the Human Sciences will sponsor a conference, The Nature of the Human Sciences in the Seventeenth and Eighteenth Centuries, in Lancaster, 26–29 September 1990, that will “focus on conceptualising the subject of the human sciences in the early modern and Enlightenment period, before the differentiation of the modern human science disciplines.” For further information contact Roger Smith, Department of History, University of Lancaster, LA1 4YG, England.

Individuals interested in receiving the first circular for the seventeenth Pacific Science Congress—“Towards the Pacific Century: The Challenge of Change,” Honolulu, Hawaii, 27 May–2 June 1991—should contact the Congress Secretariat, 2424 Maile Way, Honolulu, HI 96822; (808) 948-7555; FAX (808) 942-9008; e-mail psc@uhcux.bitnet.

The International Association for Geomagnetism and Aeronomy will sponsor a meeting, Pioneers in Geophysical Research, in Vienna in August 1991. For further information contact Wilfried Schroder, Hechelstrasse 8, D-2820 Bremen-Roennebeck, Federal Republic of Germany.

The seventeenth Saint Louis Conference on Manuscript Studies will be held 12–13 October 1990 at Saint Louis University. For further information contact the Conference Committee, Manuscripta, Pius XII Memorial Library, Saint Louis University, 3650 Lindell Blvd., Saint Louis, MO 63108.

The Society for the History of Science, Turkey, in cooperation with the International Union of History and Philosophy of Science and the Research Centre for Islamic History, Art, and Culture, will sponsor a symposium, Science Institutions in Islamic Civilization, in Istanbul, 22–24 April 1991. For more information contact the Symposium Secretariat, P.O. Box 24, 80692, Besiktas Istanbul, Turkey, phone 160 5988; telex 26484 isam tr; FAX (011) 158 4365.

Continued on next page
Calls for Papers—continued

The University of the South Pacific is planning a conference, *Science of Pacific Island Peoples*, to consider such themes as traditional science and technology in the Pacific, the impact of external contact on Pacific science, the modern value of traditional knowledge, and science policy and traditional science. For further information contact John Morrison, School of Pure and Applied Sciences, University of the South Pacific, Suva, Fiji.

The Society for the History of Alchemy and Chemistry will hold a meeting devoted to plastics at the Science Museum Library, 1 December 1990. For further information contact Ann Newmark, Science Museum, South Kensington, London, SW7 2DD.

A workshop, Technohistory of Electrical Information Technology, will be held at the Deutsches Museum, Munich, 15–19 December 1990. For further information contact Oskar Blumtritt or Hartmut Petzold, Deutsches Museum, Postfach 260102, 8000 München 26, Federal Republic of Germany; phone 089-21-79-1, ext. 271.

**Dissertations Completed**

As this listing is rarely complete or up to date, the Executive Secretary urges all graduate students (and their professors) to notify him as soon as they defend their dissertations. For accuracy please enclose a copy of the dissertation's title page.

Readers of the HSS Newsletter may also want to consult A List of Theses in History of Science in British Universities and Polytechnics in Progress or Recently Completed (no. 20, 1989–90), compiled by Sophie Forgan and issued by the British Society for the History of Science. Copies are available from the BHSH Executive Secretary (31 High Street, Stanford in the Vale, Faringdon, Oxon SN7 8LH, England) for $6.00 or £3.00 postpaid.


**Call for Publishable MSS**

*Mad River*, a multidisciplinary journal of essays for the educated general reader—essays "that (as Aristotle said) occupy leisure nobly"—invites contributions on (among other topics) the history and philosophy of science and technology. Send manuscripts to Charles S. Taylor, *Mad River*, Department of Philosophy, Wright State University, Dayton, OH 45434; e-mail ctaylor@wsu.bitnet; ctaylor@desire.wright.edu.

The Ford Foundation Program in Comparative Scientific Traditions will sponsor a conference, *Understanding the Natural World: Science Cross-Culturally Considered*, 20–22 June 1991, at Hampshire College, Amherst, Massachusetts. It will examine science broadly as ways of observing, explaining, predicting, and controlling events in the natural world, and its organizers solicit comparative papers and papers focusing on non-Western science. Some supplementary funding may be available to support travel from the Third World. Submit abstracts to and request further information from Kathleen Dugan, School of Natural Science, Hampshire College, Amherst, MA 01002; (413) 549-4600, ext. 667; e-mail kdugan@hampvms.bitnet.

*Victorian Virtue and Vice* will be the topic of the fifteenth annual meeting of the Midwest Victorian Studies Association, Chicago, 26–27 April 1991. For further information contact Michael Clarke, Department of English, Loyola University of Chicago, 6525 North Sheridan Road, Chicago, IL 60626.

The British Society for the History of Science and the Cambridge Physics History Group will sponsor a meeting, *Writing the History of Physics*, 3–5 April 1991, at St. John's College, Cambridge. It will comprise a series of workshop sessions and discussions emphasizing the period 1870–1945 and initiated by precirculated papers to focus broadly on such issues as experiment and the laboratory, theoretical practice, the establishment of an international community of physics, and physics, industry, and technology. Potential participants (about forty maximum) should contact Andrew Warwick, St. John's College, Cambridge, CB2 1TP, Great Britain before 30 September 1990.

**Meeting Reports**

**CONFERENCE HONORS THOMAS S. KUHN**

On 18–19 May 1990 the Department of Linguistics and Philosophy at the Massachusetts Institute of Technology held a conference in honor of Thomas S. Kuhn, President of the History of Science Society in 1969 and 1970, devoted to the considerable impact his scholarship has had on current work in the history and philosophy of science. The presentations included papers in history of science by Jed Z. Buchwald, Noel Swerdlow, and M. Norton Wise, with comments by John L. Heilbron, discussions of philosophical issues by Nancy D. Cartwright, John Erman, Michael Friedman, and Ernan McMullin, with comments by Arthur Fine; some remarks by Carl G. Hempel on the basic tenets of logical positivism and the importance of Kuhn's critique of that point of view; and a concluding paper by Professor Kuhn, responding to the conference and indicating the direction of his current research. The proceedings will be published in 1991 by MIT Press.

**CHEMICAL SCIENCES IN THE MODERN WORLD**

"Chemical Sciences in the Modern World," a conference sponsored by the Beckman Center for the History of Chemistry, funded in part by the Alfred P. Sloan and the National Science Foundations, and organized by Duke University's Seymour H. Mauskopf [the Center's first Edelstein International Fellow], was held in suburban Philadelphia, 17–20 May 1990. It provided a forum for sixty historians, sociologists, chemists, high school teachers, and others to generate new perspectives on the last 150 years of the chemical sciences, to consider ways to improve science and history teaching at all levels, and to promote the public understanding of science.

The topics treated in the sixteen invited papers ranged from the epistemology of Enlightenment chemistry to the invention of the sulfa drugs (1930s) and the FDA's Delaney Laws (1950s). The conference also heard presentations on strategies to document the history of the chemical sciences and on museums as articulators of this history. Several papers addressed the utility and the limitations of treating science largely as a...
social construct, applying the concept to case histories as diverse as Justus Liebig's organic chemistry, the reform of atomic weights, and George Beadle's use of Drosophila and Neurospora. Subsequent discussion revealed that the concept of social constructionism, while important, mystified conference participants other than historians and sociologists of science. Appropriately, one paper addressed the "near incommensurability" of the approaches and objectives of this "most eclectic group," as one chemist described it. But that extraordinary diversity of background also helped the conference go.

Discussion frequently focused on how the history of chemistry should be taught and brought before the public. Among those urging that modern chemical history be made more teachable and more assimilable to the rest of history was Roald Hoffman, host of PBS's "World of Chemistry" series. He advocated reworking scholarly accounts for popular audiences, although he acknowledged that both scientists and historians of science find it painful to simplify their work. And John Ihde, a teacher from Wausau, Wisconsin, and the son of Aaron Ihde (also present), spoke of his wish to see a sequel, as it were, to his father's Development of Modern Chemistry (Harper & Row, 1964).

The Beckman Center is planning a series of workshops for high school teachers for the summer of 1991. The papers delivered will also be published to stimulate further research. — Mary Ellen Bowden

SCIENCE AND EMPIRES

On 3–6 April, the Recherches Epistémologiques et Historiques sur les Sciences Exactes et les Institutions Scientifiques (REHSEIS) at the Centre Nationale de la Recherche Scientifique sponsored an international colloquium, "Science and Empires," at the UNESCO building in Paris. Organized by Patrick Petitjean and Catherine Jami, the meeting addressed both the worldwide diffusion of Western science through the colonization process that began in the sixteenth century and the interaction of Western and non-Western science, particularly in the new nations of the late twentieth century. The colloquium brought together over a hundred historians, social scientists, and scientists, principally from Asia and Latin America. They heard about seventy-five brief papers in the eleven concurrent sessions, which focused on regions (East Asia, Brazil), disciplines (botany, medicine, technology), topical approaches (colonial institutions of science, expeditions and missions, government scientific policy), and historiography (models of diffusion). The participants' papers revealed an enormous range of research and publication on the diffusion of science, based upon significant bodies of published and archival resources barely known, if at all, to historians of science in the United States.

It was exciting to see scholars in the former colonial areas actively recovering their past, in part as a means of understanding each nation's particular process of development. In general the papers approached the diffusion of science in a way familiar to most members of HSS. Speakers discussed and criticized George Basalla's and Lewis Pyenson's cultural models of the spread of scientific ideas and the development of scientific institutions, but no alternative overview found broad support.

Most speakers did, however, share the view that the imperial nations often saw Western scientific institutions and research programs as one means of domination and exploitation. Many of the papers, particularly those on Brazil and India, also examined the countervailing development of scientific traditions that have merged Western and indigenous culture. Despite the variety of cultures and tongues represented (papers were given without translation in Spanish, French, and English) the colloquium clearly tapped a constituency for the study of the diffusion of Western science that was larger than anyone had expected. The concluding session thus heard a strong call for the creation of a network of "Science and Empire" scholars, perhaps facilitated by a newsletter. — Darwin H. Stapleton

Archives & Research Centers

The American Association of Neurological Surgeons (formerly the Harvey Cushing Society) has established an archive to document the development of the specialty of neurological surgery. Its holdings include videotaped interviews with prominent senior neurological surgeons and others in the neurosciences, instruments related to the diagnosis and treatment of neurosurgical conditions, and correspondence, manuscripts, and scientific publications related to the creation and development of the specialty. For further information (and a catalogue of the videotapes available for purchase and rental) contact the AANS at 22 South Washington Street, Park Ridge, IL 60068; (708) 692-9500.

The Archives of the History of American Psychology at the University of Akron has received $10,000 from the will of James V. McConnell, who also left his papers to the archives.

Copies of a guide to the papers of Carl Shipp Marvel (1894–1988), now available for scholarly use at the Beckman Center for the History of Chemistry in Philadelphia, may be purchased for $5.00 from the National Foundation for History of Chemistry, 3401 Walnut Street, Philadelphia, PA 19104-6228; (215) 898-3675.
Awards, Honors & Appointments

Janet Abbate has been awarded the second Adelle and Erwin Tomash Fellowship in the History of Computing by the Charles Babbage Institute for the History of Information Processing.

Edward C. Aldridge and Craig B. Waff have each received the 1989 Robert H. Goddard Historical Essay Award from the National Science Club for their respective essays, “Assured Access: The Bureaucratic Space War” and “Planetary Exploration at the Brink: The Administration Debate over the FY 1983 NASA Budget.”

Mitchell G. Ash will spend the 1990/91 academic year as a fellow of the Wissenschaftskolleg zu Berlin.

Ann M. Blair received one of fifty-five NSF–NATO Postdoctoral Fellowships in Science recently awarded.

James J. Bohning recently rejoined the staff of the Beckman Center for the History of Chemistry as Assistant Director for Oral History Programs.

Lenore Feigenbaum has been awarded the Lillian and Joseph Leibner Award for Distinguished Teaching and Advising at Tufts University.

Jun Fudano’s dissertation (see HSS Newsletter, April 1990, p. 14) was judged the best University of Oklahoma dissertation in Arts and Humanities in 1990.

André Goddu has been appointed assistant professor of the history of science at Stonehill College, North Easton, Massachusetts.

Loren Graham currently serves as chair of the joint committee on Soviet studies of the American Council of Learned Societies and the Social Science Research Council.

Monica H. Green has been appointed a visiting member of the School of Historical Studies, Institute for Advanced Study, for 1990/91 and 1991/92.


Gerald Grob has been named a member of the Institute of Medicine.

Thomas A. Horrocks has been appointed Director of the Library for Historical Services at the College of Physicians of Philadelphia.

David Joravsky has been named a fellow of the Woodrow Wilson International Center for Scholars for 1990/91.

Martin H. Krieger has been awarded the Bernard Zell/Leonard W. Lurie Award and Fellowship for the Teaching of Entrepreneurship at the School of Business Administration, University of Michigan.

Kenneth M. Ludmerer and Robert J. Weinstock were recently elected fellows of the American Association for the Advancement of Science.

William M. McBride, John M. Olin Fellow at Yale for 1989/90, recently became assistant professor of history at James Madison University.

Jeffrey Meikle has received a grant from the J. Paul Getty Trust for an interdisciplinary history of plastic in American culture.

Eric Sageng has accepted a position as tutor at St. John’s College in Annapolis, Maryland.

Clark T. Sawin has been awarded the Orr E. Reynolds Award of the American Physiological Society for 1990 for his essay “Defining Thyroid Hormone: Its Nature and Control.”

Richard Sawyer has been appointed a postdoctoral fellow on the Biomolecular Sciences Initiative (BIMOSI) at the Beckman Center for the History of Chemistry.

Rosemary Stevens has been appointed the Baxter Foundation Health Services Research Prize for 1990 by the Association of University Programs in Health Administration for her “distinguished contributions to the health of the public through health services research.”

Oliver B. Strimpel became Executive Director of the Computer Museum, Boston, on 29 January 1990.

Sarah W. Tracy has been named an honorary recipient of a Charlotte W. Newcombe Fellowship for 1990.

Fernando Vidal has been named assistant professor of the history of psychology in the Department of Psychology of the University of New Hampshire.

Martha Ellen Webb has established Making History, a firm providing research, exhibit, lecture, and other historical services, in Omaha, Nebraska.

Magda Whitrow, editor of the Isis Cumulative Bibliography, 1913–1965, has been elected an honorary member of the Académie Internationale d’Histoire des Sciences.

Books Received by Isis

December 1989 – February 1990


Hoffmeister, Donald E. Mammals of Illinois. xvii + 348 pp., illus., bibl., index. Urbana/Chicago: University of Illinois Press, 1989. $34.95.


Hooke, Robert. Micrographia: O algumas descrições fisiológius de los cuerpos diminutos realizadas mediante cristas de aumento con observaciones y disquisiciones sobre ellas. Edited and translated by Carlos Solis. [Clásicos Alfaguara.] 742 pp., illus., index. Madrid: Alfaguara, 1989.


Hoyningen-Huene, Paul. Die Wissenschaftsphilosophie Thomas S. Kuhns: Rekonstruktion
AAAS Report — continued from page 6

humanities, fine and practical arts, and social sciences—and especially historians of science—are essential collaborators with scientists in framing the definition of "scientific literacy" and designing curricula to provide it.

Inevitably, the proposition that the natural sciences should be taught in the tradition of the liberal arts will be met with skepticism and with objections. Certainly, considerable resources are necessary for the development and implementation of new or restructured programs. The AAAS report demonstrates the feasibility of integrating the sciences and the liberal arts with an appendix describing existing courses and programs—several of which are organized and taught by historians of science—whose goals, liberal arts perspective, multidisciplinary content, and pedagogical techniques are similar to those espoused in the report.

Many science professors already share the beliefs and hopes spelled out in the AAAS report; they will find the prestige and backing of the AAAS useful in discussions within their colleges and universities and in seeking external support. For their part, historians of science can do much to support their colleagues in the sciences, and even take the lead, as their institutions seek to implement educational programs that truly examine science as one of the liberal arts.

Copies of The Liberal Art of Science: Agenda for Action are available from AAAS Books, P.O. Box 753, Waldorf, MD 20604, for $12.95 ($10.30 for AAAS members). Those interested in learning more about the project that led to this report are urged to contact its director, Audrey B. Champagne, National Center for Improving Science Education, 920 L Street, NW, Suite 202, Washington, DC 20036; (202) 467-0652.
Fellowships & Grants Awarded

Recipients of grants recently awarded by the trustees of the Dudley Observatory, in response to its seventh annual competition for the Herbert C. Pollock Award in the History of Astronomy and Astrophysics, include James M. Lattis (Univ. Wisconsin), for a study of Christopher Clavius ($10,000 Pollock Award); Mark Littman (Loyola College), for a biography of Edwin Hubble ($5,000 Dudley Award); Norriss S. Hetherington (Univ. California at Berkeley), for a study of Edwin Hubble’s cosmology ($3,000 Dudley Award); and Frederic J. Baumgartner, for a study of the origins of the Provincial School of Astronomy ($2,000 Dudley Award).

In response to proposals submitted by 3,218 artists, scholars, and scientists, the John Simon Guggenheim Memorial Foundation has awarded 143 fellowships for 1990/91. Recipients and their projects include Ian Hacking (Univ. Toronto), kinds of people and kinds of things; Susan Quinn (Brookline, MA), a biography of Marie Curie; Louis Menand (Queens College, CUNY), the Modernist Club and the shaping of modern American culture; and Amélie Oksenberg Rorty (Mount Holyoke College), philosophical conceptions of the passions and emotions in the seventeenth and eighteenth centuries.

Among the recipients of the 236 fellowships for university and college teachers and independent scholars awarded by the National Endowment for the Humanities for 1990/91 are Monica H. Green (Duke Univ.), for a project on medical writings on women from the early Middle Ages, and Helen S. Lang (Trinity College, Hartford), for a project on the writing and rhetoric of science—the tradition of Aristotle’s Physics.

Ten students planning to pursue history of science are among the 850 recipients of National Science Foundation Graduate Fellowships for 1990/91. These individuals and their undergraduate institutions are Michael T. Allen (Whitman College, Washington); Cathryn L. Carson (Univ. Chicago); Stuart M. Feffer (Univ. Chicago); Ram Neta (Harvard); Jason K. Glenn (Univ. California at Berkeley); Joseph P. O’Connell (Univ. Chicago); Mindy J. Herzfeld (Barnard); Jessica G. Riskin (Harvard); Elizabeth Rose S. Watkins (Radcliffe); and Joanne D. Woik (Cornell).

The University of Oklahoma has named Pamela Gossin and Joy Harvey Rockefellor Foundation Postdoctoral Fellows in the Humanities for 1990/91. Their respective projects are “Cultural Contexts and Literary Explorations of Astronomy in the Works of Kepler, Newton, Halley, Flamsteed, the Herschels, and Proctor” and “‘Almost a Man of Genius’: Clémence Royer, an Unusual Nineteenth-Century Frenchwoman.”

Among the 122 Mellon Fellows in the Humanities appointed recently by the Woodrow Wilson National Fellowship Foundation, three plan to study history and philosophy of science: the fellows and their undergraduate institutions are Cathryn L. Carson (Univ. Chicago); William M. Dickson (Univ. South Carolina); and Katalin Makkai (McGill).